CLAIMS.

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1. Device converting thermal energy into kinetic one, related to the group of machines using four-phase basic thermodynamic cycles and converting thermal energy into kinetic one by means of an available outside heat source, char acterized by the fact that it uses rarefied gas in a novel three-phase of which the first phase is a spontaneous isothermal gas aggregation (0---1)), equivalent to ideal isothermal compression, the second phase is an adiabatic expansion(1--2), producing work, via a gas turbine (5), at the expense of the internal thermal energy of the gas and the third phase is an isobaric expansion (2---0), where the expanded gas is re-heated, via a heat exchanger (6), while cooling the ambient air (7). Phase (0---1) is accomplished when the gas passes through numerous special microscopic holes (4) with sizes comparable to the mean free path of the molecules and with smart geometric shapes,ie slot(26) and cone(27) with diverging inner surfaces, cavity(28) with segments of concave spherical surfaces, or the like, grouped together in small parallel modules, allowing the gas to take advantage of a peculiar property of the molecular layer adsorbed upon the inner walls of the holes, which layer slightly diverts the (normally) uniform rebound of the molecules towards directions more close to the perpendiculars to the inner surfaces, with the net result that a small but discrete amount of gas is passing through the holes spontaneously, achieving an aggregated output.